

**Flood Control Project Maintenance
Levee Inspections**

Fall 2011 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2089	Overall LMA Rating	Total LMA Miles				
Reclamation District No. 2089 Stark	U	2.90				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	1.20	1.30	6.40	220.69%		
Trim / Thin Trees	0.27	0.15	0.87	30.00%		
Encroachments	0.06	0.01	0.10	3.45%	0.42	0.05
Animal Control	0.08	0.06	0.32	11.03%		
Crown Surface / Depressions / Rutting	0.05		0.05	1.72%		
<i>Supplemental</i>						
DWR Erosion Survey	0.01	0.02	0.09	3.10%		
<i>LMA Totals:</i>	1.67	1.54	7.83	270.00%	0.42	0.05

Unit No. 01 Old River RB	Overall Unit Rating	Total Unit Miles				
RD2089	U	1.53				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.51	1.25	5.51	360.13%		
Trim / Thin Trees	0.10	0.15	0.70	45.75%		
Encroachments	0.03	0.01	0.07	4.58%	0.39	
Animal Control	0.03		0.03	1.96%		
Crown Surface / Depressions / Rutting	0.04		0.04	2.61%		
<i>Supplemental</i>						
DWR Erosion Survey	0.01	0.01	0.05	3.27%		
<i>Unit Totals:</i>	0.72	1.42	6.40	418.30%	0.39	0.00

Unit No. 02 Salmon Slough RB	Overall Unit Rating	Total Unit Miles				
RD2089	U	1.37				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.69	0.05	0.89	64.96%		
Trim / Thin Trees	0.17		0.17	12.41%		
Encroachments	0.03		0.03	2.19%	0.03	0.05
Animal Control	0.05	0.06	0.29	21.17%		
Crown Surface / Depressions / Rutting	0.01		0.01	0.73%		
<i>Supplemental</i>						
DWR Erosion Survey		0.01	0.04	2.92%		
<i>Unit Totals:</i>	0.95	0.12	1.43	104.38%	0.03	0.05

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2011 Levee Inspection Results

Reclamation District No. 2089 Stark

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Reclamation District No. 2089 Stark

Waterway			Bank	Unit Miles
Unit No. 01 Old River			Right	1.53

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/24/2011 - 5/24/2011		11/10/2011 - 11/10/2011	
DWR Inspector	Jim Eto		Jim Eto	
Accompanied By	Bob Winter KSN			
	Mike Gikas RD 2089			

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway					Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 01 Old River					Right	1.53	11/10/2011 11/10/2011		Jim Eto

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.00	0.39	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch Inspector Comments: 05/24/2011 Photo added of Ag ditch.	37.811681 ° -121.384930 °	37.809755 ° -121.391520 °	9 Y
2	0.03	0.27	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Excessive vegetation on landside slope.	37.811487 ° -121.385479 °	37.810322 ° -121.389407 °	5 Y
3	0.04	0.04	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level. Inspector Comments: 05/24/2011 Issue is unchanged since Fall 2010 inspection photo attached.	37.811467 ° -121.385569 °	37.811467 ° -121.385569 °	3 Y
4	0.04	0.04	Earthen Levee	Encroachments	LS	W	Pipe Inspector Comments: Drainage pump	37.811467 ° -121.385569 °	37.811467 ° -121.385569 °	7 Y
5	0.04	0.04	Earthen Levee	Encroachments	LS	M	Stairways Inspector Comments: Steps have been cut into the levee slope, this could become an erosion point, please fill and compact.	37.811474 ° -121.385573 °	37.811474 ° -121.385573 °	1 Y
6	0.10	0.10	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level. Inspector Comments: Two scrub oaks obstruct access to levee slope. 05/24/2011 Issue has not changed since Fall 2010 inspection, photo attached	37.811272 ° -121.386703 °	37.811272 ° -121.386703 °	935 Y
7	0.18	0.18	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level. Inspector Comments: Trees are blocking visibility and access.	37.810802 ° -121.387969 °	37.810802 ° -121.387969 °	2 Y
8	0.22	0.22	Supplemental	DWR Erosion Survey	WS	C	Inspector Comments: 08/23/2011: No new erosion activities observed on site. Dense vegetation and trees are visible. 09/07/2010: Site appears to have been repaired by placing shot rock along the slope for revetment. There is an abundance of seasonal grass all along the upper and middle slopes. It is recommended that a second inspection be conducted to confirm status of site. 09/28/2009: Localized sloughing near the toe; rock protection has been added on the lower slope and toe; site is recommended for annual assessment and monitoring, per CLRO CES Evaluation 2008 Report; previously rated "M". 11/05/2008: Minor toe erosion. 10/20/2006: Site visited 10/20/2006. [2011 Site ID: RD2089U01RM30.02]	37.810460 ° -121.388870 °	37.810460 ° -121.388870 °	54
9	0.23	0.23	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level. Inspector Comments: 05/24/2011 Issue is unchanged since Fall 2010. 11/10/2011 Trees have been limbed up, but needs to be limbed up further to provide full access and visibility.	37.810532 ° -121.388823 °	37.810532 ° -121.388823 °	938 Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway						Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 01 Old River						Right	1.53	11/10/2011 11/10/2011		Jim Eto
LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
10	0.24	0.24	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps. Inspector Comments: Stump greater than 2" on landside crown.	37.810499 ° -121.388884 °	37.810499 ° -121.388884 °	6 Y
11	0.24	0.24	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level. Inspector Comments: Issue has not changed since Fall 2010.	37.810490 ° -121.389018 °	37.810490 ° -121.389018 °	939 Y
12	0.24	0.24	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo remains as an obstruction despite last years burning. 05/24/2011 Bamboo still remains, updated photo attached. 11/10/2011 Arundo has been trimmed back from the crown but still remains as an obstruction to the slope and obstructs visibility, needs to be removed. This plant was improperly identified as bamboo in previous inspections.	37.810488 ° -121.389018 °	37.810488 ° -121.389018 °	940 Y
13	0.26	0.26	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Brush is growing despite the rock protection.	37.810380 ° -121.389282 °	37.810380 ° -121.389282 °	942
14	0.26	0.26	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps. Inspector Comments: Stump in levee crown.	37.810376 ° -121.389290 °	37.810376 ° -121.389290 °	8 Y
15	0.26	0.26	Earthen Levee	Trim / Thin Trees	LS	U	Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Tree needs to be trimmed up to 5' to allow visibility and access during floodfight.	37.810346 ° -121.389319 °	37.810346 ° -121.389319 °	11 Y
16	0.27	0.39	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Access and visibility completely blocked. 11/10/2011 issue has not changed.	37.810319 ° -121.389510 °	37.809740 ° -121.391645 °	12 Y
17	0.29	0.34	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Trees mixed with thick vegetation, trees need to be trimmed to 12' above roadway and to 5' elsewhere to permit access for flood fighting an visibility.	37.810219 ° -121.389805 °	37.809978 ° -121.390704 °	17 Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	

18	0.30	0.31	Supplemental	DWR Erosion Survey	WS	C	Inspector Comments: 08/23/2011: No significant changes observed on site. 09/07/2010: Site appears to have been repaired by placing shot rock along the entire slope as revetment. Seasonal grasses growing over the placed revetment. Emergent vegetation at the lower slope that could possibly be covering the vertical scarp that was previously observed. It is recommended that another inspection be conducted to verify status of site. It was previously rated "U".08/06/2010: Recommended as local maintenance issue, per CLRO.09/28/2009: Rock revetment placed on the upper slope; however, vertical scarp still exists; site is recommended for annual assessment and monitoring of erosion site, per CLRO CES Evaluation 2008 Report; Site # is the same as RM29.95, LM0.22; previously rated "M".11/05/2008: Pocket erosion with vertical scarp; loss of rip rap; mild vegetation growth since previous survey.10/20/2006: Site visited on 10/20/2006. [2011 Site ID:RD2089U01RM29.95]	37.810050 ° -121.390260 °	37.810050 ° -121.390260 °	53
19	0.34	0.34	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo completely blocks access and visibility.11/10/2011 Arundo has been trimmed back from the roadway, but still completely blocks access and visibility to the landside slope. This plant was improperly identified as bamboo in previous inspections.	37.809978 ° -121.390704 °	37.809978 ° -121.390704 °	19 Y
20	0.38	0.38	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level.	37.809865 ° -121.391303 °	37.809865 ° -121.391303 °	946 Y
21	0.39	0.39	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	37.809788 ° -121.391490 °	37.809788 ° -121.391490 °	26 Y
22	0.41	0.41	Supplemental	DWR Erosion Survey	WS	W	Inspector Comments: 08/23/2011: Boat survey uncovered a 10-ft vertical scarp just upstream of the revetment. Vegetation and trees on site. 09/07/2010: Site appears to have been repaired by placing shot rock as rip rap protection. Note patches of seasonal grass on revetment. It is recommended that an inspection in the near future be conducted to verify the condition of the revetment. Site was previously rated "M".08/06/2010: Recommended as local maintenance issue, per CLRO.09/28/2009: Rock protection was recently placed along the upper slope; photographs need to be updated; site is recommended for annual assessment and monitoring of erosion site, per CLRO CES Evaluation 2008 Report; Site # is the same as RM29.84,LM0.30; previously rated "M".11/05/2008: Two sites have been combined as one supersite; steep ws slope and downstream of a pump.10/20/2006: Visited site 10/20/2006. [2011 Site ID:RD2089U01RM29.83]	37.809530 ° -121.392160 °	37.809530 ° -121.392160 °	52 Y

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway						Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 01 Old River						Right	1.53	11/10/2011 11/10/2011		Jim Eto
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
23	0.42	0.48	Earthen Levee	Trim / Thin Trees	LS	U	Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Trees need to be trimmed to allow visibility and 12 feet over roadway. Too thick to allow access and visibility.	37.809643 ° -121.391869 °	37.809507 ° -121.392907 °	27 Y
24	0.42	0.48	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation is too thick to allow access and visibility.	37.809593 ° -121.391963 °	37.809507 ° -121.392907 °	28 Y
25	0.45	0.45	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 08/23/2011: The site shows loose material around the pipe crossing. The operation of the pipe might have caused certain impact on the levee. [2011 Site ID:RD2089U01RM29.8]	37.809394 ° -121.392791 °	37.809394 ° -121.392791 °	51 Y
26	0.47	0.47	Earthen Levee	Encroachments	WS	W	Pipe	37.809494 ° -121.392787 °	37.809494 ° -121.392787 °	10 Y
27	0.50	0.50	Earthen Levee	Trim / Thin Trees	WS	U	Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Trees need to be thinned, too dense to allow access in a flood fight situation. Woody vegetation has been sprayed, but needs to be removed to allow visibility and access..	37.809666 ° -121.393210 °	37.809666 ° -121.393210 °	29 Y
28	0.50	0.50	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dead growth is too thick to allow access during flood fight situation and completely obstructs visibility of the landside toe.	37.809665 ° -121.393219 °	37.809665 ° -121.393219 °	30 Y
29	0.56	0.56	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Minor depressions will cause ponding.	37.810087 ° -121.394200 °	37.810087 ° -121.394200 °	14 Y
30	0.60	0.60	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level. Inspector Comments: 05/24/2011 Issue remains unchanged since Fall 2010, photo attached	37.810230 ° -121.394967 °	37.810230 ° -121.394967 °	950 Y
31	0.64	1.53	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Waterside vegetation is too thick to allow access and visibility.	37.810048 ° -121.395762 °	37.806534 ° -121.407531 °	18 Y
32	0.64	0.64	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.810130 ° -121.395732 °	37.810130 ° -121.395732 °	951 Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
33	0.66	0.66	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 08/23/2011: The 5-foot vertical scarp shows no significant change from the last year inspection. No new erosion activities observed. Dense white willow trees on site. 09/07/2010: It was difficult to view the erosion due to the thick Willow thickets and other vegetation at the water line. At the time of the inspection, there were no signs of repair on site. As noted during the last survey, there is a 5-foot vertical scarp along the lower slope that may be subjected to high flow velocities. 08/05/2010: Recommended for repair, per CLRO; "Erosion of this site may be subjective to rapid rates of erosion." 09/28/2009: No major change observed; 5-foot vertical scarp is immediately downstream of where berm has tapered; site is recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM29.6, LM0.60; previously rated "U". 11/05/2008: No change observed; rodent holes on lower slope; wide levee crown. [2011 Site ID: RD2089U01RM29.61]	37.809780 ° -121.396230 °	37.809780 ° -121.396230 °	50 Y
34	0.67	0.68	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dead brush needs to be removed, too thick to allow access and obstructs visibility of levee slope and toe	37.809975 ° -121.396107 °	37.809822 ° -121.396376 °	31 Y
35	0.67	0.67	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrows evident.	37.809974 ° -121.396110 °	37.809974 ° -121.396110 °	32 Y
36	0.73	0.77	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Dead vegetation prohibits visibility of the landside toe.	37.809516 ° -121.396955 °	37.808909 ° -121.397557 °	20 Y
37	0.82	0.82	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Irrigation intake pump and pipe.	37.808427 ° -121.397827 °	37.808427 ° -121.397827 °	13 Y
38	0.85	1.07	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Tall weeds and brush on top 20' of waterside slope obstruct visibility.	37.807938 ° -121.397898 °	37.806011 ° -121.399668 °	36
39	0.85	0.85	Earthen Levee	Encroachments	LS	A	Agricultural tilling Inspector Comments: Tilling issue has been corrected. Tilling now ends at levee toe.	37.807938 ° -121.397902 °	37.807938 ° -121.397902 °	34 Y
40	0.88	0.88	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: 11/10/2011 Tree needs to be trimmed up 5' to allow visibility of the landside slope and toe.	37.807502 ° -121.397781 °	37.807502 ° -121.397781 °	22 Y

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River						Right	1.53	11/10/2011 11/10/2011	Jim Eto

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
41	0.96	0.96	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Large arundo on waterside prevents visibility and access to waterside slope.	37.806397 ° -121.397758 °	37.806397 ° -121.397758 °	33 Y
42	0.97	0.97	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.806347 ° -121.397861 °	37.806347 ° -121.397861 °	37 Y
43	0.98	0.98	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Vegetation prevents access and visibility of the landside toe.	37.806266 ° -121.397960 °	37.806266 ° -121.397961 °	41 Y
44	0.98	1.07	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Thick vegetation blocks viability and access to top 20' of waterside slope.	37.806264 ° -121.397961 °	37.805885 ° -121.399726 °	35 Y
45	1.01	1.07	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.806088 ° -121.398710 °	37.805903 ° -121.399857 °	15
46	1.04	1.06	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry and tobacco block visibility.	37.806063 ° -121.398930 °	37.805967 ° -121.399348 °	956
47	1.04	1.04	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees over roadway to at least 12 feet above ground level.	37.806109 ° -121.398950 °	37.806109 ° -121.398950 °	38
48	1.06	1.06	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees over roadway to at least 12 feet above ground level.	37.806041 ° -121.399320 °	37.806041 ° -121.399320 °	39
49	1.10	1.10	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability. Inspector Comments: Brush blocks access.	37.805848 ° -121.400003 °	37.805848 ° -121.400003 °	957
50	1.16	1.16	Earthen Levee	Encroachments	LS	M	Pipe Inspector Comments: 11/10/2011 Two pieces of DI pipe need to be removed. Creates a possible obstruction to access during a floodfight.	37.805631 ° -121.401142 °	37.805631 ° -121.401142 °	42 Y
51	1.16	1.16	Earthen Levee	Encroachments	WS	W	Pipe	37.805623 ° -121.401207 °	37.805623 ° -121.401207 °	21 Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
52	1.18	1.18	Supplemental	DWR Erosion Survey	WS	W	Inspector Comments: 08/23/2011: Minor erosion activities are observed at the toe of the rip rap. Dense vegetation can block view for potential erosion. 09/07/2010: Site has been repaired. It appears that additional shot rock was placed on top of the exposed area, adding protection at the levee toe. Site was previously rated "M". 08/06/2010: Recommended as local maintenance issue, per CLRO.2009: Existing revetment just above the toe is sloughing; site is recommended for local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM29.10, LM1.10; previously rated "M". 10/20/2006: Toe slough; existing revetment. [2011 Site ID:RD2089U01RM29.11]	37.805530 ° -121.401700 °	37.805530 ° -121.401700 °	4 Y
53	1.22	1.22	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo within top 20' of waterside levee slope.	37.805663 ° -121.402151 °	37.805663 ° -121.402151 °	25 Y
54	1.25	1.25	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Depression needs to be filled.	37.805735 ° -121.402614 °	37.805735 ° -121.402614 °	43 Y
55	1.26	1.26	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level. Inspector Comments: Improvements made, however trees remain obstructive. Updated photo 05/24/2011.	37.805770 ° -121.402790 °	37.805770 ° -121.402790 °	16 Y
56	1.26	1.26	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Depression in roadway needs ot be filled.	37.805801 ° -121.402913 °	37.805801 ° -121.402913 °	44 Y
57	1.38	1.38	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Depression needs to be filled.	37.806128 ° -121.404890 °	37.806128 ° -121.404890 °	45 Y
58	1.43	1.43	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or groud burrows. Inspector Comments: 11/10/2011 No rodents visible, but active burrows are present.	37.806268 ° -121.405874 °	37.806268 ° -121.405874 °	47 Y
59	1.43	1.43	Earthen Levee	Encroachments	LS	M	Tree or limb Inspector Comments: 11/10/2011 Downed tree at levee toe prevents access to levee from landside..	37.806266 ° -121.405876 °	37.806266 ° -121.405876 °	46 Y
60	1.45	1.45	Earthen Levee	Encroachments	CR	U	Pipe Inspector Comments: 11/10/2011 6" PVC piipe has been placed through the crown of the levee. PVC is not allowed, pipe is cut into the landside slope, encroachment is not permitted.	37.806312 ° -121.406148 °	37.806312 ° -121.406148 °	48 Y
61	1.46	1.46	Earthen Levee	Encroachments	LS	W	Pipe	37.806396 ° -121.406348 °	37.806396 ° -121.406348 °	40 Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River						Right	1.53	11/10/2011 11/10/2011	Jim Eto

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
62	1.47	1.47	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Deep burrow on waterside needs to be filled.	37.806383 ° -121.406599 °	37.806383 ° -121.406599 °	49 Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.39
Location	Land Side
Category	Earthen Levee
Item	Encroachments
05/24/2011 Ditch flows parallel with the utility line shown in the photo.	
jeto_f_20110923_236.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.03
End Levee Mile	0.27
Location	Land Side
Category	Earthen Levee
Item	Vegetation
11/10/2011 Landside vegetation obstructs visibility of the slope and toe.	
jeto_f_20111121_599.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Trees on landside slope limit access and visibility.	
jeto_f_20110923_227.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	3
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Condition of tree has not changed since Fall 2010 inspection.	
jeto_f_20110923_228.jpg	



Levee Mile Report Line	4
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Waterside of drainage discharge to Old River.	
jeto_f_20110923_234.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Encroachments
05/24/2011 Steps are hard to discern in the photo, the top two steps are casting the two shadows located between the post and the photographer's shadow.	
jeto_f_20110923_225.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	6
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Issue remains unchanged since noted in the Fall 2010 inspection.	
jeto_f_20110923_258.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.18
End Levee Mile	0.18
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Both trees shown need to be trimmed up 5' to allow visibility of landside slope.	
jeto_f_20110923_226.jpg	



Levee Mile Report Line	9
Start Levee Mile	0.23
End Levee Mile	0.23
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Tree was also noted in the Fall 20110 inspection.	
jeto_f_20110923_259.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	9
Start Levee Mile	0.23
End Levee Mile	0.23
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

11/10/2011 Tree has been limbed up, but still needs to be cleared around the bottom to permit access to the slope in the event of a flood fight.

jeto_f_20111121_600.jpg



Levee Mile Report Line	10
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Stump shown in center of photo.

jeto_f_20110923_233.jpg



Levee Mile Report Line	11
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Tree must be trimmed up 5'. Issue noted in Fall 2010 inspection.

jeto_f_20110923_260.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	12
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Bamboo on levee slope and crown obstruct access and visibility.

jeto_f_20110923_261.jpg



Levee Mile Report Line	12
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Land Side
Category	Earthen Levee
Item	Vegetation

05/24/2011 Bamboo has been trimmed back off of crown, but still completely blocks access and visibility.

jeto_f_20110923_262.jpg



Levee Mile Report Line	12
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Land Side
Category	Earthen Levee
Item	Vegetation

11/10/2011 Arundo has been trimmed back, but vegetation on the landside slope must be cleared to 15' beyond the toe.

jeto_f_20111121_601.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	14
Start Levee Mile	0.26
End Levee Mile	0.26
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Stump is located in center of photo.	
jeto_f_20110923_235.jpg	



Levee Mile Report Line	15
Start Levee Mile	0.26
End Levee Mile	0.26
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
11/10/2011 Tree obstructs visibility and access to slope, needs to be limbed up to 5'.	
jeto_f_20111121_602.jpg	



Levee Mile Report Line	16
Start Levee Mile	0.27
End Levee Mile	0.39
Location	Land Side
Category	Earthen Levee
Item	Vegetation
05/24/2011 Thick brush and wild rose completely block access and visibility of landside slope and toe.	
jeto_f_20110923_238.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	17
Start Levee Mile	0.29
End Levee Mile	0.34
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Numerous trees and thick vegetation in area, trees need to be trimmed to 12' above roadway and up 5' on landside slope and toe to allow access and visibility.	
jeto_f_20110923_242.jpg	



Levee Mile Report Line	19
Start Levee Mile	0.34
End Levee Mile	0.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation
05/24/2011 Large bamboo prevents any access and completely obstructs visibility of landside slope and toe.	
jeto_f_20110923_243.jpg	



Levee Mile Report Line	19
Start Levee Mile	0.34
End Levee Mile	0.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation
11/10/2011 Arundo has been trimmed back from the road, but needs to be removed to so that it does not obstruct visibility and access to the landside slope.	
jeto_f_20111121_603.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	20
Start Levee Mile	0.38
End Levee Mile	0.38
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Trees on levee slope obstruct access and visibility.	
jeto_f_20110923_263.jpg	



Levee Mile Report Line	21
Start Levee Mile	0.39
End Levee Mile	0.39
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Tree needs to be trimmed up 5' to allow access and visibility to landside slope.	
jeto_f_20110923_246.jpg	



Levee Mile Report Line	22
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Upstream view of the scarp at the levee toe	
SJR2011_RD2089U01RM29.83_1.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	22
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

upstream view of the scarp.

SJR2011_RD2089U01RM29.83_2.jpg



Levee Mile Report Line	22
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the repaired site.

SJR2011_RD2089U01RM29.83_3.jpg



Levee Mile Report Line	23
Start Levee Mile	0.42
End Levee Mile	0.48
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Trees need to be trimmed to 12' over roadway and up 5' on levee slope to allow access and visibility.

jeto_f_20110923_247.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	24
Start Levee Mile	0.42
End Levee Mile	0.48
Location	Land Side
Category	Earthen Levee
Item	Vegetation

05/24/2011 Photo shows thick dead vegetation and continuation of trees in area that are preventing access and visibility of landside slope and toe.

jeto_f_20110923_248.jpg



Levee Mile Report Line	25
Start Levee Mile	0.45
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. Note the color of material around the pipe crossing.

SJR2011_RD2089U01RM29.8_1.jpg



Levee Mile Report Line	25
Start Levee Mile	0.45
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site

SJR2011_RD2089U01RM29.8_2.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	25
Start Levee Mile	0.45
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site

SJR2011_RD2089U01RM29.8_3.jpg



Levee Mile Report Line	25
Start Levee Mile	0.45
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site

SJR2011_RD2089U01RM29.8_4.jpg



Levee Mile Report Line	26
Start Levee Mile	0.47
End Levee Mile	0.47
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Irrigation intake pump and pipe at LM 0.46.

jeto_f_20110923_237.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	27
Start Levee Mile	0.50
End Levee Mile	0.50
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Trees on waterside need to be thinned to allow access and visibility of top 20' of waterside slope.	
jeto_f_20110923_249.jpg	



Levee Mile Report Line	27
Start Levee Mile	0.50
End Levee Mile	0.50
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
11/10/2011 Woody vegetation needs to be cleared off of the upper 20' of the waterside slope.	
jeto_f_20111121_604.jpg	



Levee Mile Report Line	28
Start Levee Mile	0.50
End Levee Mile	0.50
Location	Land Side
Category	Earthen Levee
Item	Vegetation
05/24/2011 Dead brush is too thick to allow access and visibility of landside slope and toe.	
jeto_f_20110923_250.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	29
Start Levee Mile	0.56
End Levee Mile	0.56
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
11/10/2011 Depressions in crown.	
jeto_f_20111121_605.jpg	



Levee Mile Report Line	30
Start Levee Mile	0.60
End Levee Mile	0.60
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Issue was also noted in Fall 2010 inspection.	
jeto_f_20110923_264.jpg	



Levee Mile Report Line	31
Start Levee Mile	0.64
End Levee Mile	1.53
Location	Water Side
Category	Earthen Levee
Item	Vegetation
11/10/2011 Vegetation needs to be cleared on the upper 20' of the waterside slope.	
jeto_f_20111121_607.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	33
Start Levee Mile	0.66
End Levee Mile	0.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. The scarp is visible on the slope.

SJR2011_RD2089U01RM29.61_1.jpg



Levee Mile Report Line	33
Start Levee Mile	0.66
End Levee Mile	0.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of the site. Note the very dense white willow thickets on site.

SJR2011_RD2089U01RM29.61_2.jpg



Levee Mile Report Line	33
Start Levee Mile	0.66
End Levee Mile	0.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site.

SJR2011_RD2089U01RM29.61_3.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	33
Start Levee Mile	0.66
End Levee Mile	0.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site.

SJR2011_RD2089U01RM29.61_4.jpg



Levee Mile Report Line	34
Start Levee Mile	0.67
End Levee Mile	0.68
Location	Land Side
Category	Earthen Levee
Item	Vegetation

05/24/2011 Vegetation is mostly dead but needs to be removed to allow access and visibility of slope and toe.

jeto_f_20110923_251.jpg



Levee Mile Report Line	35
Start Levee Mile	0.67
End Levee Mile	0.67
Location	Water Side
Category	Earthen Levee
Item	Animal Control

05/24/2011 Two active burrows shown in photo.

jeto_f_20110923_252.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	36
Start Levee Mile	0.73
End Levee Mile	0.77
Location	Land Side
Category	Earthen Levee
Item	Vegetation
11/10/2011 Vegetation obstructs visibility of slope and toe.	
jeto_f_20111121_608.jpg	



Levee Mile Report Line	37
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Irrigation intake pump and pipe on levee slope.	
jeto_f_20110923_239.jpg	



Levee Mile Report Line	39
Start Levee Mile	0.85
End Levee Mile	0.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments
05/24/2011 Photo shows tilling issue noted in Fall 2010 inspection has been corrected, tilling now stops at toe of landside slope.	
jeto_f_20110923_253.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	40
Start Levee Mile	0.88
End Levee Mile	0.88
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
11/10/2011 Tree appears to have been sprayed, needs to be limbed up 5' to allow for visibility of slope and toe.	
jeto_f_20111121_609.jpg	



Levee Mile Report Line	41
Start Levee Mile	0.96
End Levee Mile	0.96
Location	Water Side
Category	Earthen Levee
Item	Vegetation
11/10/2011 Arundo on upper 20' of waterside slope.	
jeto_f_20111121_610.jpg	



Levee Mile Report Line	42
Start Levee Mile	0.97
End Levee Mile	0.97
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Tree needs to be trimmed up 5'.	
jeto_f_20110923_254.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	43
Start Levee Mile	0.98
End Levee Mile	0.98
Location	Land Side
Category	Earthen Levee
Item	Vegetation
11/10/2011 Vegetation obstructs visibility of the slope and toe.	
jeto_f_20111121_611.jpg	



Levee Mile Report Line	44
Start Levee Mile	0.98
End Levee Mile	1.07
Location	Water Side
Category	Earthen Levee
Item	Vegetation
11/10/2011 Thick vegetation on upper 20; of waterside slope.	
jeto_f_20111121_612.jpg	



Levee Mile Report Line	50
Start Levee Mile	1.16
End Levee Mile	1.16
Location	Land Side
Category	Earthen Levee
Item	Encroachments
11/10/2011 Section of ductilie iron pipe that speears to be left from a pipe repair. Needs to be removed.	
jeto_f_20111121_613.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	51
Start Levee Mile	1.16
End Levee Mile	1.16
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Drainage discharge into Old River.

jeto_f_20110923_244.jpg



Levee Mile Report Line	52
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

A close view of the minor erosion activities.

SJR2011_RD2089U01RM29.11_1.jpg



Levee Mile Report Line	52
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site.

SJR2011_RD2089U01RM29.11_2.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	52
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of the minor erosion activities.

SJR2011_RD2089U01RM29.11_3.jpg



Levee Mile Report Line	52
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of the minor erosion activities.

SJR2011_RD2089U01RM29.11_4.jpg



Levee Mile Report Line	53
Start Levee Mile	1.22
End Levee Mile	1.22
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Bamboo on waterside levee slope obstructs access and visibility.

jeto_f_20110923_245.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	54
Start Levee Mile	1.25
End Levee Mile	1.25
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
11/10/2011 Depression in roadway.	
jeto_f_20111121_614.jpg	



Levee Mile Report Line	55
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Trees on levee slope obstruct access and visibility.	
jeto_f_20110923_240.jpg	



Levee Mile Report Line	55
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Trees have been trimmed since Fall 2010 inspection, however they still need to be trimmed up 5' to allow visibility of slope and access in a flood fight.	
jeto_f_20110923_241.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	56
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
11/10/2011 Roadway depression.	
jeto_f_20111121_615.jpg	



Levee Mile Report Line	57
Start Levee Mile	1.38
End Levee Mile	1.38
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
11/10/2011 Roadway depression.	
jeto_f_20111121_616.jpg	



Levee Mile Report Line	58
Start Levee Mile	1.43
End Levee Mile	1.43
Location	Land Side
Category	Earthen Levee
Item	Animal Control
11/10/2011 Active rodent burrow on landside slope.	
jeto_f_20111121_618.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	59
Start Levee Mile	1.43
End Levee Mile	1.43
Location	Land Side
Category	Earthen Levee
Item	Encroachments
11/10/2011 Downed tree at toe needs to be removed.	
jeto_f_20111121_617.jpg	



Levee Mile Report Line	60
Start Levee Mile	1.45
End Levee Mile	1.45
Location	Crown
Category	Earthen Levee
Item	Encroachments
11/10/2011 Broken PVC pipe on waterside.	
jeto_f_20111121_619.jpg	



Levee Mile Report Line	60
Start Levee Mile	1.45
End Levee Mile	1.45
Location	Crown
Category	Earthen Levee
Item	Encroachments
11/10/2011 PVC pipe on landside slope. Pipe needs to be removed.	
jeto_f_20111121_620.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	61
Start Levee Mile	1.46
End Levee Mile	1.46
Location	Land Side
Category	Earthen Levee
Item	Encroachments
05/24/2011 pipe through levee, not previously noted in inspection.	
jeto_f_20110923_257.jpg	



Levee Mile Report Line	62
Start Levee Mile	1.47
End Levee Mile	1.47
Location	Water Side
Category	Earthen Levee
Item	Animal Control
11/10/2011 Deep burrow on waterside.	
jeto_f_20111121_621.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Reclamation District No. 2089 Stark

Waterway			Bank	Unit Miles
Unit No. 02 Salmon Slough			Right	1.37

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/24/2011 - 5/24/2011		11/10/2011 - 11/10/2011	
DWR Inspector	Jim Eto		Jim Eto	
Accompanied By	Bob Winter KSN			
	Mike Geekas RD 2089			

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/10/2011 11/10/2011	Jim Eto

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.00	0.39	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation on the levee slope and toe are partially obstructive.	37.806543 ° -121.407549 °	37.810094 ° -121.412438 °	19 Y
2	0.06	0.06	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Two large oaks with hanging limbs over levee. Downed limb. 05/24/2011 photo added.	37.807108 ° -121.408488 °	37.807108 ° -121.408488 °	3 Y
3	0.08	0.08	Earthen Levee	Vegetation	WS	U	Elderberries are blocking visibility and flood fight capability. Inspector Comments: Thick brush may include some elderberries. 05/24/2011 updated photo.	37.807375 ° -121.408605 °	37.807375 ° -121.408605 °	4 Y
4	0.21	0.21	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.809058 ° -121.409712 °	37.809058 ° -121.409712 °	5
5	0.23	0.23	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	37.809282 ° -121.409930 °	37.809282 ° -121.409930 °	6
6	0.28	0.28	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Ground squirrel sighted and active borrowing in area	37.809717 ° -121.410511 °	37.809717 ° -121.410511 °	24 Y
7	0.30	0.30	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.809878 ° -121.411027 °	37.809878 ° -121.411027 °	7
8	0.37	0.37	Earthen Levee	Encroachments	CR	PO	Fences Inspector Comments: Gates across levee.	37.810106 ° -121.412133 °	37.810106 ° -121.412133 °	2
9	0.38	0.38	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrow needs to be repaired.	37.810125 ° -121.412317 °	37.810125 ° -121.412317 °	26 Y
10	0.40	0.66	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Tobacco leaf and other brush block access and visibility.	37.810109 ° -121.412619 °	37.812395 ° -121.415813 °	8 Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/10/2011 11/10/2011	Jim Eto

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
11	0.42	0.43	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 08/23/2011: No significant changes observed on site. 09/07/2010: Site consists of a jutting rip rap that has created an eddy, scouring the levee slope. Most sections of the toe and lower slope are lined with rip rap. However, the rip rap is sloughing on the mid slope and at the toe, exposing the underlying soils and tree roots. The remaining revetment is no longer adequately protecting the slope. There are 3 Sycamore trees at the toe with exposed tree roots. 08/05/2010: Recommended for repair, per CLRO.09/28/2009: Pocket erosion on lower slope just above the toe rip rap; protruding rip rap upstream is creating an eddy, scouring the levee slope; Site # is the same as RM28.40, LM0.30; previously rated "U"; pictures will be made available during the next survey. 11/05/2008: Cut into levee profile; riprap slide; rodent holes; pictures do not match GPS and current condition. [2011 Site ID: RD2089U02RM28.35]	37.809960 ° -121.413200 °	37.809960 ° -121.413200 °	1 Y
12	0.46	0.46	Earthen Levee	Encroachments	WS	PO	Buildings Inspector Comments: Portable toilet on bank, at water's edge.	37.810490 ° -121.413638 °	37.810490 ° -121.413638 °	27 Y
13	0.49	0.49	Earthen Levee	Animal Control	CR	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Two old burrows that need to be filled.	37.810691 ° -121.414014 °	37.810691 ° -121.414014 °	13 Y
14	0.49	0.49	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact. Inspector Comments: Surface depression needs to be filled.	37.810714 ° -121.414057 °	37.810714 ° -121.414057 °	10 Y
15	0.54	0.54	Earthen Levee	Animal Control	WS	U	Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: 11/10/2011 Repair damage to slope caused by livestock.	37.811150 ° -121.414748 °	37.811150 ° -121.414748 °	14 Y
16	0.54	0.56	Earthen Levee	Animal Control	WS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: No rodents present, but significant tracks and burrows, need to be corrected. May be the cause of the drop off on the waterside of the levee crown. See photos.	37.811212 ° -121.414769 °	37.811480 ° -121.415141 °	35
17	0.54	0.54	Earthen Levee	Animal Control	WS	C	Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Animal tracks on slope	37.811161 ° -121.414800 °	37.811161 ° -121.414800 °	11
18	0.56	0.56	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Irrigation intake	37.811366 ° -121.415064 °	37.811366 ° -121.415064 °	12 Y
19	0.82	0.82	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees over roadway to at least 12 feet above ground level.	37.814544 ° -121.414276 °	37.814544 ° -121.414276 °	37 Y

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough					Right	1.37	11/10/2011 11/10/2011	Jim Eto

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
20	0.82	0.86	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild growth and dead underbrush prevents visibility of levee slope and area cannot be accessed if needed for a flood fight.	37.814421 ° -121.414203 °	37.814913 ° -121.414594 °	36 Y
21	0.85	0.85	Earthen Levee	Animal Control	WS	M	Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Livestock have worn paths into levee slope.	37.814773 ° -121.414555 °	37.814773 ° -121.414555 °	21
22	0.85	0.85	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrows present.	37.814844 ° -121.414566 °	37.814844 ° -121.414566 °	38
23	0.86	0.86	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry and blackberry on levee slope.	37.814906 ° -121.414745 °	37.814906 ° -121.414745 °	25
24	0.86	0.86	Earthen Levee	Encroachments	CR	PO	Fences Inspector Comments: Gate across levee crown.	37.814881 ° -121.414676 °	37.814881 ° -121.414676 °	9
25	0.87	0.92	Earthen Levee	Animal Control	LS	U	Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Numerous burrows on landside slope adjacent to hay storage area. Deep burrows in crown and land side ramp.	37.814997 ° -121.414774 °	37.814970 ° -121.415767 °	40 Y
26	0.95	0.95	Earthen Levee	Encroachments	WS	M	Pipe Inspector Comments: Debris/CMP on levee slope needsto be removed.	37.814940 ° -121.416499 °	37.814940 ° -121.416499 °	41 Y
27	0.99	0.99	Earthen Levee	Encroachments	LS	M	Debris	37.814990 ° -121.416999 °	37.814990 ° -121.416999 °	28 Y
28	1.02	1.14	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.815160 ° -121.417474 °	37.816499 ° -121.418824 °	42
29	1.07	1.07	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps. Inspector Comments: 14" dia stump. Could not verify overgrown with high weeds.	37.815629 ° -121.418133 °	37.815629 ° -121.418133 °	29 Y
30	1.08	1.08	Earthen Levee	Encroachments	WS	M	Debris Inspector Comments: Water tanks disposed of on levee are obstructive.	37.815734 ° -121.418226 °	37.815734 ° -121.418226 °	17
31	1.15	1.15	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	37.816487 ° -121.418948 °	37.816487 ° -121.418948 °	30
32	1.26	1.26	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	37.818051 ° -121.419743 °	37.818051 ° -121.419743 °	31

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough						Right	1.37	11/10/2011 11/10/2011	Jim Eto

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
33	1.28	1.33	Earthen Levee	Encroachments	LS	CO	Buildings Inspector Comments: Buildings and equipment encroach within 10-ft of landside toe.	37.818277 ° -121.419725 °	37.819040 ° -121.419760 °	23 Y
34	1.30	1.33	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Low hanging trees over crown road.	37.818607 ° -121.419660 °	37.818968 ° -121.419743 °	43 Y
35	1.32	1.32	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	37.818829 ° -121.419776 °	37.818829 ° -121.419776 °	32

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	2
Start Levee Mile	0.06
End Levee Mile	0.06
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Issue noted in Fall 2010 inspection. Downed limb is visible beneath the overhanging limbs.	
jeto_f_20110923_269.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Fall 2009 photo of unacceptable vegetation on levee slope.	
jeto_f_20110923_270.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	Earthen Levee
Item	Vegetation
05/24/2011 Updated photo of issue noted in Fall 2010 inspection.	
jeto_f_20110923_271.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	6
Start Levee Mile	0.28
End Levee Mile	0.28
Location	Land Side
Category	Earthen Levee
Item	Animal Control
05/24/2011 Active burrows, ground squirrel sighted in area.	
jeto_f_20110923_279.jpg	



Levee Mile Report Line	9
Start Levee Mile	0.38
End Levee Mile	0.38
Location	Land Side
Category	Earthen Levee
Item	Animal Control
05/24/2011 Active rodent burrow.	
jeto_f_20110923_280.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.40
End Levee Mile	0.66
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Fall 2009 photo: brush on landside toe limits visibility and accessibility.	
jeto_f_20110923_273.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	10
Start Levee Mile	0.40
End Levee Mile	0.66
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Brush on landside slope limits access.	
jeto_f_20110923_274.jpg	



Levee Mile Report Line	11
Start Levee Mile	0.42
End Levee Mile	0.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Upstream view of the site where minor erosion activities observed.	
SJR2011_RD2089U02RM28.35_1.jpg	



Levee Mile Report Line	11
Start Levee Mile	0.42
End Levee Mile	0.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
A closer look of the site with minor erosions.	
SJR2011_RD2089U02RM28.35_2.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	11
Start Levee Mile	0.42
End Levee Mile	0.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

A closer look of the site with minor erosions.

SJR2011_RD2089U02RM28.35_3.jpg



Levee Mile Report Line	11
Start Levee Mile	0.42
End Levee Mile	0.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

A closer look of the site with minor erosions.

SJR2011_RD2089U02RM28.35_4.jpg



Levee Mile Report Line	12
Start Levee Mile	0.46
End Levee Mile	0.46
Location	Water Side
Category	Earthen Levee
Item	Encroachments

05/24/2011 Portable toilet is in the shadows in the center of the photo at the water's edge.

jeto_f_20110923_281.jpg



*** Location**

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C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	13
Start Levee Mile	0.49
End Levee Mile	0.49
Location	Crown
Category	Earthen Levee
Item	Animal Control
11/10/2011 Two large burrows on crown, need to be filled.	
jeto_f_20111118_597.jpg	



Levee Mile Report Line	14
Start Levee Mile	0.49
End Levee Mile	0.49
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
11/10/2011 Depression in crown needs to be filled.	
jeto_f_20111118_596.jpg	



Levee Mile Report Line	15
Start Levee Mile	0.54
End Levee Mile	0.54
Location	Water Side
Category	Earthen Levee
Item	Animal Control
11/10/2011 Approximately 1' scarp has been created by livestock travel.	
jeto_f_20111118_598.jpg	

*** Location**

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CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	18
Start Levee Mile	0.56
End Levee Mile	0.56
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Irrigation intake pump and pipe at waterside slope.

jeto_f_20110923_276.jpg



Levee Mile Report Line	19
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Trees need to be trimmed up 12' over road.

jeto_f_20110923_288.jpg



Levee Mile Report Line	20
Start Levee Mile	0.82
End Levee Mile	0.86
Location	Land Side
Category	Earthen Levee
Item	Vegetation

05/24/2011 Extremely thick dead brush prevents access and visibility.

jeto_f_20110923_287.jpg



*** Location**

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WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	25
Start Levee Mile	0.87
End Levee Mile	0.92
Location	Land Side
Category	Earthen Levee
Item	Animal Control
05/24/2011 Deep vertical burrow in levee crown.	
jeto_f_20110923_289.jpg	



Levee Mile Report Line	25
Start Levee Mile	0.87
End Levee Mile	0.92
Location	Land Side
Category	Earthen Levee
Item	Animal Control
05/24/2011 Deep vertical burrow in ramp on land side of levee.	
jeto_f_20110923_290.jpg	



Levee Mile Report Line	26
Start Levee Mile	0.95
End Levee Mile	0.95
Location	Water Side
Category	Earthen Levee
Item	Encroachments
05/24/2011 Old CMP left on waterside levee slope, needs to be removed.	
jeto_f_20110923_291.jpg	

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	27
Start Levee Mile	0.99
End Levee Mile	0.99
Location	Land Side
Category	Earthen Levee
Item	Encroachments
05/24/2011 Concrete and metal debris at landside toe needs to be removed.	
jeto_f_20110923_282.jpg	



Levee Mile Report Line	29
Start Levee Mile	1.07
End Levee Mile	1.07
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Tree stump >2" left after vegetation and tree removal.	
jeto_f_20110923_283.jpg	



Levee Mile Report Line	33
Start Levee Mile	1.28
End Levee Mile	1.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Fall 2009 photo: boat and equipment stored within 10-ft of levee slope are an encroachment.	
jeto_f_20110923_277.jpg	

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	11/10/2011 11/10/2011	Jim Eto

Levee Mile Report Line	33
Start Levee Mile	1.28
End Levee Mile	1.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Fall 2009 photo: Buildings and patio decks are built within 10-ft of the levee slope.

jeto_f_20110923_278.jpg



Levee Mile Report Line	34
Start Levee Mile	1.30
End Levee Mile	1.33
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Low hanging trees need to be trimmed up 12' over road.

jeto_f_20110923_292.jpg



*** Location**

LS : Land Side
WS : Water Side
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**** Rating**

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